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Form PD-A-100	Serial Number: 09/973,270	Docket PD-89418A
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Applicant DONALD C. D. CHANG ET. AL	
(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

## U.S. PATENT DOCUMENTS

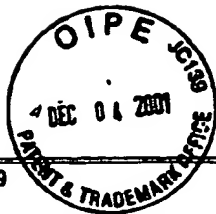
	Document Number	Date	Name	Class	Sub Class
LW	2,470,787	05/24/49	Nosker	342	12
LW	3,384,891	05/21/68	Anderson	343	6.5
LW	3,544,995	12/01/70	Bottenberg et. al	342	46
LW	3,720,953	03/13/73	Ajtoka	343	771
LW	4,161,730	07/17/79	Anderson		
LW	4,161,734	07/17/79	Anderson	343	100
LW	4,359,733	11/16/82	O'Neill	343	6.5
LW	4,613,864	9/23/86	Hofgen	343	357
LW	4,635,063	01/08/87	Chang et. al	342	380
LW	4,818,227	4/4/89	Rosen	370	75
LW	4,897,661	1/30/90	Hiraiwa	342	457
LW	4,979,170	12/18/90	Gilhausen et al.	370	104.1
LW	4,994,809	2/19/91	Yung et. al	342	108
LW	5,006,855	4/9/91	Braff	342	357
LW	5,077,562	12/31/91	Chang et. al	342	368
LW	5,099,245	3/24/92	Sagey	342	357
LW	5,111,209	5/5/92	Toriyama	342	357
LW	5,126,748	6/30/92	Ames et. al	342	353
LW	5,218,619	6/8/93	Dent	375	1
LW	5,233,626	8/3/93	Ames	375	1
LW	5,278,863	1/11/94	Briskman	375	1
LW	5,319,673	6/7/94	Briskman	375	1
LW	5,387,916	2/7/95	Cohn	342	44
LW	5,410,314	4/25/95	Frush et. al	342	26
LW	5,444,450	8/22/95	Olds et. al	342	357
LW	5,485,485	1/16/96	Briskman et. al	375	200
LW	5,525,995	6/11/96	Benner	342	90
LW	5,550,809	8/27/96	Bottomley et. al	370	18

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	Document Number	Date	Name	Class	Sub Class
LW	EP 0335 558	4/10/89	McCaughan et. al		
LW	JP 3-291584	12/20/91	Toyota		
LW	JP 09026328	01/28/97	Tokimec Inc.		
LW	JP 2-28580		Mitsubishi Electric Corp/ (Yamazaki)		
LW	JP 4-27887		Corresponding to USP 5,111,209 (copy provided)		

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Examiner	Date Considered
	12/21/04



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Form PTO-1449	Serial Number: 09/973,270	Docket PD-89418A
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant DONALD C. D. CHANG ET. AL	
(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

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	Document Number	Date	Name	Class	Sub Class
LW	5,555,257	9/10/96	Dent	370	95.1
LW	5,572,216	11/05/96	Weinberg et al.	342	357
LW	5,592,471	1/7/97	Briskman	455	52.3
LW	5,594,941	1/14/97	Dent	455	13.4
LW	5,612,701	03/18/97	Diekelman	342	354
LW	5,644,572	7/1/97	Olds et. al	370	324
LW	5,739,785	3/14/98	Allison et. al	342	357
LW	5,790,070	08/04/98	Natarajan et al.	342	354
LW	5,810,284	9/22/98	Hibbs et. al	244	13
LW	5,856,804	01/05/99	Turcotte et al.	342	371
LW	5,864,579	1/26/99	Briskman	375	200
LW	5,903,549	05/11/99	Von der Embse et. al	370	310
LW	5,909,460	6/1/99	Dent	375	200
LW	5,920,284	7/6/99	Victor	342	357.01
LW	5,944,770	8/31/99	Enge et. al	701	707
LW	5,945,948	8/31/99	Buford et. al	342	457
LW	5,949,766	09/07/99	Ibanez-Meier et.al	370	316
LW	5,969,674	10/19/99	Von der Embse et. al	342	357.17
LW	5,973,647	10/26/99	Barrett et. al	343	713
LW	6,111,542	08/29/00	Day et al.	342	359
LW	6,138,012	10/24/00	Krutz et. al	455	427
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LW	JP 08015405A	01/19/96	NEC Corp. (Toshiaki)	—	—
LW	JP 09113600A	05/02/97	Aqueous Res.KK (Hiroki)	—	—
LW	JP 10090391A	04/10/98	Sharp Corp. (Koichi et. al)	—	—
LW	GB 2306 827A	05/07/97	Intl. Mobile Satellite Org	—	—
LW	GB 2271 902A	10/20/93	Caterpillar	—	—

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

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(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

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	Document Number	Date	Name	Class	Sub Class
LW	5,917,447	06/29/99	Wang et. al	342	383
LW	5,017,927	05/21/91	Agrawal et. al	342	371

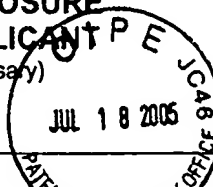
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	Document Number	Date	Name	Class	Sub Class
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LW		Yokosuka Research Park, "THE FIRST STRATOSPHERIC PLATFORM SYSTEMS WORKSHOP", May 12-13, 1999, pp. 1-216.
LW		Chiba, Isamu et. al, "Digital Beam Forming (DBF) Antenna System for Mobile Communications", IEEE AES Systems Magazine, Sept. 1997, pp. 31-41.
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Examiner		Date Considered 12/21/04

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)			<b>Complete if Known</b>	
	Application Number		09/973,270	
	Filing Date		October 5, 2001	
	First Named Inventor		Donald C.D. Chang	
	Art Unit		2634	
	Examiner Name		Linda Wong	
Sheet 1 of 2		Attorney Docket Number		PD-089418A

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LW		US-3,673,606	06-1972	Maune, James J.	
LW		US-4,926,186	05-1990	Kelly, Robert J.	

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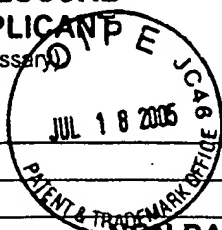
Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
LW		EP 0190927	08-1986	Sangster, Alan John		
LW		EP 0647976	04-1995	Uematsu, Masahiro et al.		
LW		WO 97/33342 (Canadian equivalent 2,217,730 also enclosed)	09-1997	Goto, Naohisa et al.		

Examiner Signature		Date Considered	12/26/05
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	Application Number	09/973,270
	Filing Date	October 5, 2001
	First Named Inventor	Donald C.D. Chang
	Art Unit	2634
	Examiner Name	Linda Wong
Sheet 2 of 2	Attorney Docket Number	PD-089418A



NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
LW		MIURA, RYU et al., "Beamforming Experiment with a DBF Multibeam Antenna in a Mobile Satellite Environment", IEEE, April 1997, Vol. 45, No. 4, XP 000686406	

Examiner Signature		Date Considered	12/26/05
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